What Is Claimed Is:

1	1. An apparatus for supporting one or more servers on a single
2	semiconductor chip, comprising:
3	a plurality of first-level translation lookaside buffers on the single
4	semiconductor chip, wherein each first-level translation lookaside buffer is
5	associated with a processor core of a plurality of processor cores on the single
6	semiconductor chip; and
7	a second-level translation lookaside buffer that is coupled to the plurality
8	of first-level translation lookaside buffers;
9	wherein an access to a page table entry in main memory by a processor
10	core associated with a first-level translation lookaside buffer can be stored in the
11	second-level translation lookaside buffer before being forwarded to the first-level
12	translation buffer associated with the processor that requested the page table entry;
13	whereby storing the page table entry in the second-level translation
14	lookaside buffer eliminates a need to refer to main memory to access the same
15	page table entry if another processor requests the same page table entry.